

KOREAN PATENT ABSTRACTS XML 1(1-1)

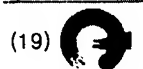
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KOREAN PATENT ABSTRACTS

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(71)Applicant: SAMSUNG ELECTRONICS CO., LTD.

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(54) DEVICE FOR ACCESSING DATA OF OPTICAL DISK HAVING MULTI-LAYER DATA STRUCTURE AND METHOD THEREOF

(57) Abstract:

PURPOSE: A device for accessing data of an optical disk having a multi-layer structure is provided to simultaneously perform a focus jump for moving an optical beam to a target layer and a coarse seek process through a sled move, so as to reduce a data access time.

CONSTITUTION: A spindle motor(404) rotates an optical disk(402) at a constant speed. An optical pickup(406) irradiates an optical beam on the optical disk(402) from an objective lens to read data recorded on the optical disk(402), or records data on the optical disk(402). A focus servo(408) controls a focusing between the optical disk (402) and the objective lens. A tracking servo(410) controls the optical pickup(406) to track a track of the optical disk(402). A sled servo(412) controls a transferring of the optical pickup(406) to a radial direction of the optical disk(402). A system controller(414) horizontally moves the optical pickup(406) to perform a coarse seek process, and carries out a focus jump for moving the optical beam to a target layer during the coarse seek process, then performs a precise seek process moving to a target track by a track jump to access data.

